I-39/Portage County B Interchange Improvements

Public Involvement Meeting October 6, 2015



Agenda

- Explain project purpose and need
- Present interchange alternatives
- Compare alternatives
- Discuss next steps in the project development process



Purpose and Need

The purpose of the project is to address:

- Safety
- Operational quality (delay and backups)
- Bike/pedestrian accommodations



Purpose and Need

Specific **needs** identified include ...





Project History

2014 public outreach

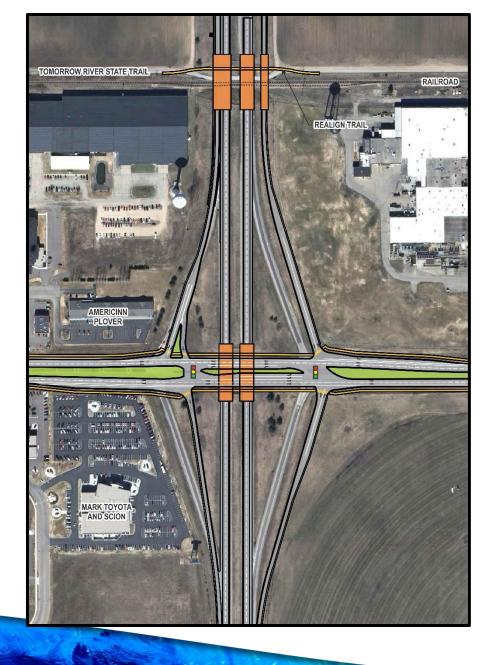
- Diamond interchange with northbound entrance loop presented as the preferred alternative
- Reviewed input obtained through outreach
- Completed additional analysis and traffic modeling
- Identified two additional alternatives
 - Diamond interchange with roundabouts
 - Diverging Diamond Interchange (DDI)



Interchange alternatives for consideration

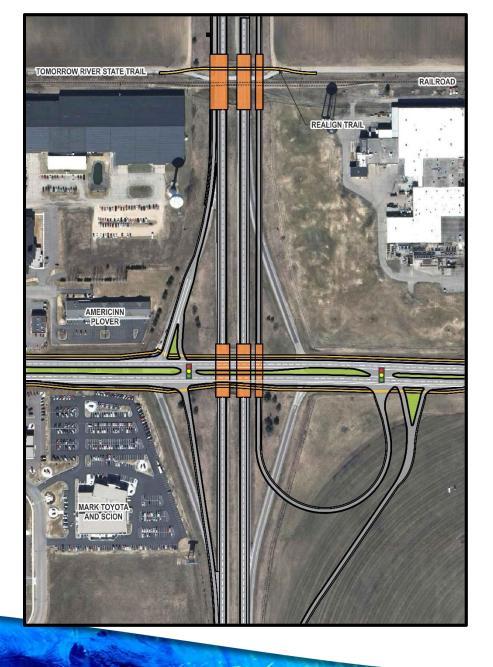


Diamond Interchange with Traffic Signals



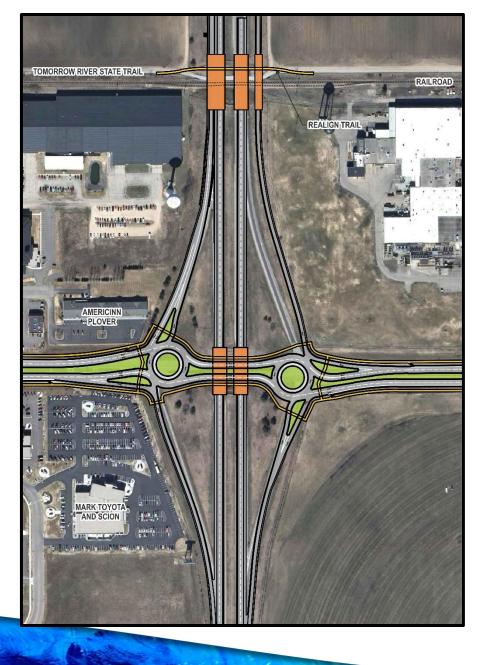


Interchange with Northbound Entrance Loop



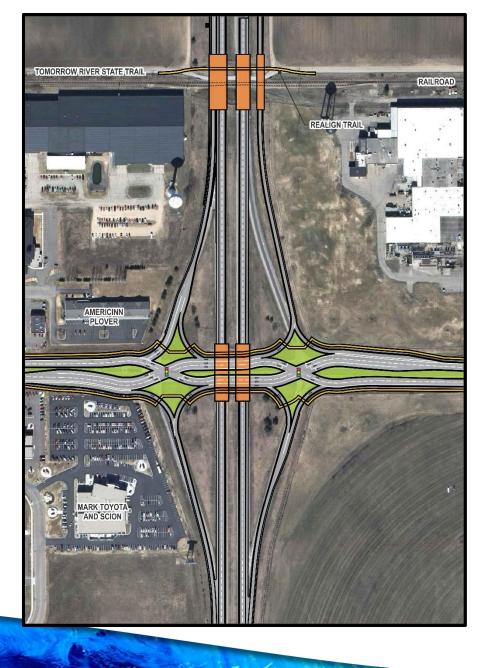


Diamond Interchange with Roundabouts





Diverging Diamond Interchange





Alternatives comparison



Alternative similarities

Each alternative addresses:

- ▶ I-39 vertical clearance concern over County B
- Safety concerns at northbound entrance ramp
- Delay and level of service issue at the ramp terminals
- Bike and pedestrian needs along County B
- Tomorrow River State Trail railroad offset need



Diamond Interchange with Traffic Signals Estimated cost

Advantages

- Most familiar to motorists
- No modifications to current access

TONORSOW ANERS YATE TRAIL GACKGOOD REALEST TRAIL AMERICAN PLOYER AND STOOD MAGE TOYON MAGE TOYO

Disadvantages

 Dual eastbound to northbound left-turn lanes create entrance-ramp merge

including real estate:

\$26-28 Million

 Requires dual southbound right-turn lanes and dual eastbound left turn lanes



Interchange with Northbound Entrance Loop Estimated cost

Advantages

- Meets desirable ramp spacing
- Reduced pedestrian conflicts
- Favors high volume eastbound to northbound movement

Disadvantages

- Significant real estate impacts in southeast quadrant
- Requires removal of Del Monte County B access driveway
- Change in expectation for eastbound to northbound motorists

including real estate:

\$29-31 Million

- Requires dual southbound right turn lanes
- Requires additional bridge over County B
- Highest cost alternative





Diamond Interchange with Roundabouts Estimated cost

including real estate: \$26-28 Million

Advantages

- Roundabouts reduces crash severity
- No modifications to current access
- Least number of conflict points



Disadvantages

- Slightly increased travel time for County B
- Potentially higher real estate impact in northwest quadrant
- Requires dual southbound right turn lanes



Diverging Diamond Interchange

Video Tutorial

https://www.youtube.com/watch?v=1pMopeJp1Uk



Diverging Diamond Interchange

Estimated cost including real estate: \$28-29 Million

Advantages

- Favors high-volume eastbound to northbound movement
- No modifications to current access

Disadvantages

- Driver familiarity
- Complex pedestrian movements
- Slightly increased travel time for County B
- Potentially higher real estate impacts in the southwest quadrant





Next Steps in the Project Development Process

November 2015 Select preferred alternative

Early 2016 Public involvement meeting to present

preferred alternative and gather more

information

Spring 2016 Complete environmental document

2017 - 2018 Real estate acquisition

Early 2019 Complete design

At this time the project is not currently in the department's six-year highway improvement program. The earliest that the interchange would be reconstructed is late 2021. After work begins, the reconstruction is expected to take approximately two years.



Contacts

Jeffrey Stewart, P.E.

WisDOT North Central Region Project Manager

Phone: 715-421-8376

jeffrey.stewart@dot.wi.gov

Jeff Knudson, P.E.

SRF Consulting Group Inc.

Phone: 608-298-5407

jknudson@srfconsulting.com



Questions?

